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WHAT IS CLAIMED IS:

- 1. An apparatus for providing power from a secondary power source where the secondary power source has a lower potential than a primary power source, comprising:
 - a field effect transistor, coupled to the secondary power source;
 - a first diode, coupled to the field effect transistor and to a device to be powered;
 - a second diode, coupled to the primary power source and the device to be powered; and
 - an inverter, coupled to a gate of the field effect transistor, wherein the inverter maintains the

field effect transistor in a pinched-off condition and preventing a current flow from the secondary

power source when the primary power source is available.

- 2. The apparatus of claim 1, wherein the field effect transistor is a depletion mode field effect transistor.
- 3. The apparatus of claim 2, wherein the depletion mode field effect transistor is an n-channel depletion mode field effect transistor.
- 4. The apparatus of claim 1, wherein the field effect transistor is an enhancement mode field effect transistor.
- 5. The apparatus of claim 4, wherein the enhancement mode transistor is a p-channel enhancement mode field effect transistor.

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- 6. An apparatus for providing power from a secondary power source where the secondary power source has a lower potential than a primary power source, comprising:
 - a first diode, coupled between the primary power source and a device to be powered;
 - a second diode, coupled to the secondary power source;
- a field effect transistor, coupled to the second diode and primary power source and the device to be powered; and

an inverter, coupled to a gate of the field effect transistor, wherein the inverter maintains the field effect transistor in a pinched-off condition and preventing a current flow from the secondary power source when the primary power source is available.

- 7. The apparatus of claim 6, wherein the field effect transistor is a depletion mode field effect transistor.
- 8. The apparatus of claim 7, wherein the depletion mode field effect transistor is an n-channel depletion mode field effect transistor.
- 9. The apparatus of claim 6, wherein the field effect transistor is an enhancement mode field effect transistor.
- 20 10. The apparatus of claim 9, wherein the enhancement mode transistor is a p-channel enhancement mode field effect transistor.